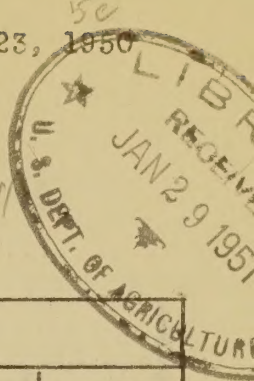


October 23, 1950

UNITED STATES DEPARTMENT OF AGRICULTURE  
FEDERAL CROP INSURANCE CORPORATION

Estimated Losses by Annual Yields, Standard Deviation = 25%



Annual Yield as % of Average	Estimated Loss as Percent of Average Yield									
	30% Ins.	35% Ins.	40% Ins.	45% Ins.	50% Ins.	55% Ins.	60% Ins.	65% Ins.	70% Ins.	75% Ins.
0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0
1	29.9	34.6	39.7	44.4	49.2	54.2	59.1	64.1	69.0	74.1
2	29.7	34.1	38.7	43.4	48.3	53.2	58.1	63.0	68.0	73.0
3	28.8	33.2	37.8	42.5	47.3	52.2	57.1	62.0	67.0	72.0
4	27.9	32.3	36.8	41.6	46.3	51.2	56.1	61.1	66.0	71.0
5	27.1	31.4	35.9	40.6	45.4	50.2	55.1	60.1	65.0	70.0
6	26.3	30.5	35.0	39.7	44.4	49.2	54.2	59.1	64.1	69.0
7	25.4	29.7	34.1	38.7	43.4	48.3	53.2	58.1	63.0	68.0
8	24.6	28.8	33.2	37.8	42.5	47.3	52.2	57.1	62.0	67.0
9	23.8	27.9	32.3	36.8	41.6	46.3	51.2	56.1	61.1	66.0
10	23.0	27.1	31.4	35.9	40.6	45.4	50.2	55.1	60.1	65.0
11	22.2	26.3	30.5	35.0	39.7	44.4	49.2	54.2	59.1	64.1
12	21.5	25.4	29.7	34.1	38.7	43.4	48.3	53.2	58.1	63.0
13	20.7	24.6	28.8	33.2	37.8	42.5	47.3	52.2	57.1	62.0
14	20.0	23.8	27.9	32.3	36.8	41.6	46.3	51.2	56.1	61.1
15	19.2	23.0	27.1	31.4	35.9	40.6	45.4	50.2	55.1	60.1
16	18.5	22.2	26.3	30.5	35.0	39.7	44.4	49.2	54.2	59.1
17	17.8	21.5	25.4	29.7	34.1	38.7	43.4	48.3	53.2	58.1
18	17.1	20.7	24.6	28.8	33.2	37.8	42.5	47.3	52.2	57.1
19	16.4	20.0	23.8	27.9	32.3	36.8	41.6	46.3	51.2	56.1
20	15.8	19.2	23.0	27.1	31.4	35.9	40.6	45.4	50.2	55.1
21	15.1	18.5	22.2	26.3	30.5	35.0	39.7	44.4	49.2	54.2
22	14.5	17.8	21.5	25.4	29.7	34.1	38.7	43.4	48.3	53.2
23	13.9	17.1	20.7	24.6	28.8	33.2	37.8	42.5	47.3	52.2
24	13.3	16.4	20.0	23.8	27.9	32.3	36.8	41.6	46.3	51.2
25	12.7	15.8	19.2	23.0	27.1	31.4	35.9	40.6	45.4	50.2
26	12.1	15.1	18.5	22.2	26.3	30.5	35.0	39.7	44.4	49.2
27	11.6	14.5	17.8	21.5	25.4	29.7	34.1	38.7	43.4	48.3
28	11.0	13.9	17.1	20.7	24.6	28.8	33.2	37.8	42.5	47.3
29	10.5	13.3	16.4	20.0	23.8	27.9	32.3	36.8	41.6	46.3
30	10.0	12.7	15.8	19.2	23.0	27.1	31.4	35.9	40.6	45.4
31	9.5	12.1	15.1	18.5	22.2	26.3	30.5	35.0	39.7	44.4
32	9.0	11.6	14.5	17.8	21.5	25.4	29.7	34.1	38.7	43.4
33	8.6	11.0	13.9	17.1	20.7	24.6	28.8	33.2	37.8	42.5
34	8.1	10.5	13.3	16.4	20.0	23.8	27.9	32.3	36.8	41.6







Estimated Losses by Annual Yields - Standard Deviation = 25% (Cont'd)

Annual Yield as % of Average	Estimated Loss as Percent of Average Yield									
	30% Ins.	35% Ins.	40% Ins.	45% Ins.	50% Ins.	55% Ins.	60% Ins.	65% Ins.	70% Ins.	75% Ins.
35	7.7	10.0	12.7	15.8	19.2	23.0	27.1	31.4	35.9	40.6
36	7.3	9.5	12.1	15.1	18.5	22.2	26.3	30.5	35.0	39.7
37	6.9	9.0	11.6	14.5	17.8	21.5	25.4	29.7	34.1	38.7
38	6.5	8.6	11.0	13.9	17.1	20.7	24.6	28.8	33.2	37.8
39	6.1	8.1	10.5	13.3	16.4	20.0	23.8	27.9	32.3	36.8
40	5.8	7.7	10.0	12.7	15.8	19.2	23.0	27.1	31.4	35.9
41	5.4	7.3	9.5	12.1	15.1	18.5	22.2	26.3	30.5	35.0
42	5.1	6.9	9.0	11.6	14.5	17.8	21.5	25.4	29.7	34.1
43	4.8	6.5	8.6	11.0	13.9	17.1	20.7	24.6	28.8	33.2
44	4.5	6.1	8.1	10.5	13.3	16.4	20.0	23.8	27.9	32.3
45	4.2	5.8	7.7	10.0	12.7	15.8	19.2	23.0	27.1	31.4
46	4.0	5.4	7.3	9.5	12.1	15.1	18.5	22.2	26.3	30.5
47	3.7	5.1	6.9	9.0	11.6	14.5	17.8	21.5	25.4	29.7
48	3.5	4.8	6.5	8.6	11.0	13.9	17.1	20.7	24.6	28.8
49	3.2	4.5	6.1	8.1	10.5	13.3	16.4	20.0	23.8	27.9
50	3.0	4.2	5.8	7.7	10.0	12.7	15.8	19.2	23.0	27.1
51	2.8	4.0	5.4	7.3	9.5	12.1	15.1	18.5	22.2	26.3
52	2.6	3.7	5.1	6.9	9.0	11.6	14.5	17.8	21.5	25.4
53	2.4	3.5	4.8	6.5	8.6	11.0	13.9	17.1	20.7	24.6
54	2.3	3.2	4.5	6.1	8.1	10.5	13.3	16.4	20.0	23.8
55	2.1	3.0	4.2	5.8	7.7	10.0	12.7	15.8	19.2	23.0
56	1.9	2.8	4.0	5.4	7.3	9.5	12.1	15.1	18.5	22.2
57	1.8	2.6	3.7	5.1	6.9	9.0	11.6	14.5	17.8	21.5
58	1.7	2.4	3.5	4.8	6.5	8.6	11.0	13.9	17.1	20.7
59	1.5	2.3	3.2	4.5	6.1	8.1	10.5	13.3	16.4	20.0
60	1.4	2.1	3.0	4.2	5.8	7.7	10.0	12.7	15.8	19.2
61	1.3	1.9	2.8	4.0	5.4	7.3	9.5	12.1	15.1	18.5
62	1.2	1.8	2.6	3.7	5.1	6.9	9.0	11.6	14.5	17.8
63	1.1	1.7	2.4	3.5	4.8	6.5	8.6	11.0	13.9	17.1
64	1.0	1.5	2.3	3.2	4.5	6.1	8.1	10.5	13.3	16.4
65	.9	1.4	2.1	3.0	4.2	5.8	7.7	10.0	12.7	15.8
66	.8	1.3	1.9	2.8	4.0	5.4	7.3	9.5	12.1	15.1
67	.8	1.2	1.8	2.6	3.7	5.1	6.9	9.0	11.6	14.5
68	.7	1.1	1.7	2.4	3.5	4.8	6.5	8.6	11.0	13.9
69	.7	1.0	1.5	2.3	3.2	4.5	6.1	8.1	10.5	13.3







Estimated Losses by Annual Yields - Standard Deviation = 25% (Cont'd)

Annual Yield as % of Average	Estimated Loss as Percent of Average Yield									
	30% Ins.	35% Ins.	40% Ins.	45% Ins.	50% Ins.	55% Ins.	60% Ins.	65% Ins.	70% Ins.	75% Ins.
70	.6	.9	1.4	2.1	3.0	4.2	5.8	7.7	10.0	12.7
71	.6	.8	1.3	1.9	2.8	4.0	5.4	7.3	9.5	12.1
72	.5	.8	1.2	1.8	2.6	3.7	5.1	6.9	9.0	11.6
73	.4	.7	1.1	1.7	2.4	3.5	4.8	6.5	8.6	11.0
74	.4	.7	1.0	1.5	2.3	3.2	4.5	6.1	8.1	10.5
75	.4	.6	.9	1.4	2.1	3.0	4.2	5.8	7.7	10.0
76	.3	.6	.8	1.3	1.9	2.8	4.0	5.4	7.3	9.5
77	.3	.5	.8	1.2	1.8	2.6	3.7	5.1	6.9	9.0
78	.3	.4	.7	1.1	1.7	2.4	3.5	4.8	6.5	8.6
79	.3	.4	.7	1.0	1.5	2.3	3.2	4.5	6.1	8.1
80	.3	.4	.6	.9	1.4	2.1	3.0	4.2	5.8	7.7
81	.3	.4	.6	.8	1.3	1.9	2.8	4.0	5.4	7.3
82	.3	.4	.5	.8	1.2	1.8	2.6	3.7	5.1	6.9
83	.3	.4	.5	.7	1.1	1.7	2.4	3.5	4.8	6.5
84	.3	.4	.5	.7	1.0	1.5	2.3	3.2	4.5	6.1
85	.3	.4	.5	.6	.9	1.4	2.1	3.0	4.2	5.8
86	.3	.4	.5	.6	.8	1.3	1.9	2.8	4.0	5.4
87	.3	.4	.5	.6	.8	1.2	1.8	2.6	3.7	5.1
88	.3	.4	.5	.6	.8	1.1	1.7	2.4	3.5	4.8
89	.3	.4	.5	.6	.8	1.0	1.5	2.3	3.2	4.5
90	.3	.4	.5	.6	.8	1.0	1.4	2.1	3.0	4.2
91	.3	.4	.5	.6	.8	1.0	1.3	1.9	2.8	4.0
92	.3	.4	.5	.6	.8	1.0	1.2	1.8	2.6	3.7
93	.3	.4	.5	.6	.8	1.0	1.2	1.7	2.4	3.5
94	.3	.4	.5	.6	.8	1.0	1.2	1.5	2.3	3.2
95	.3	.4	.5	.6	.8	1.0	1.2	1.4	2.1	3.0
96	.3	.4	.5	.6	.8	1.0	1.2	1.4	1.9	2.8
97	.3	.4	.5	.6	.8	1.0	1.2	1.4	1.8	2.6
98	.3	.4	.5	.6	.8	1.0	1.2	1.4	1.7	2.4
99	.3	.4	.5	.6	.8	1.0	1.2	1.4	1.6	2.3
100	.3	.4	.5	.6	.8	1.0	1.2	1.4	1.6	2.1
101	.3	.4	.5	.6	.8	1.0	1.2	1.4	1.6	1.9
102 & Over	.3	.4	.5	.6	.8	1.0	1.2	1.4	1.6	1.8



Estimated losses by Annual Yields - Standard Deviation 2.5% (Cont'd)

Estimated Loss as Percent of Average Yield										Annual Yield as % of Average
1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
12.7	10.0	7.7	5.8	4.2	3.0	2.1	1.5	1.0	0.5	70
12.1	9.5	7.3	5.4	4.0	2.8	1.9	1.3	0.8	0.4	71
11.5	8.9	6.8	5.1	3.7	2.6	1.8	1.2	0.7	0.3	72
11.0	8.4	6.3	4.6	3.3	2.3	1.7	1.1	0.6	0.2	73
10.5	8.1	6.1	4.4	3.2	2.2	1.6	1.0	0.5	0.1	74
10.0	7.7	5.8	4.2	3.0	2.1	1.5	0.9	0.5	0.2	75
9.5	7.3	5.4	4.0	2.8	1.9	1.3	0.8	0.4	0.1	76
9.0	6.9	5.1	3.7	2.6	1.8	1.2	0.7	0.3	0.1	77
8.5	6.5	4.8	3.3	2.3	1.7	1.1	0.6	0.2	0.0	78
8.1	6.1	4.4	3.2	2.2	1.6	1.0	0.5	0.1	0.0	79
7.7	5.8	4.2	3.0	2.1	1.5	0.9	0.5	0.2	0.0	80
7.3	5.4	4.0	2.8	1.9	1.3	0.8	0.4	0.1	0.0	81
6.9	5.1	3.7	2.6	1.8	1.2	0.7	0.3	0.1	0.0	82
6.5	4.8	3.3	2.3	1.7	1.1	0.6	0.2	0.1	0.0	83
6.1	4.4	3.2	2.2	1.6	1.0	0.5	0.1	0.0	0.0	84
5.8	4.2	3.0	2.1	1.5	0.9	0.5	0.2	0.0	0.0	85
5.4	4.0	2.8	1.9	1.3	0.8	0.4	0.1	0.0	0.0	86
5.1	3.7	2.6	1.8	1.2	0.7	0.3	0.1	0.0	0.0	87
4.8	3.3	2.3	1.7	1.1	0.6	0.2	0.1	0.0	0.0	88
4.4	3.2	2.2	1.6	1.0	0.5	0.1	0.0	0.0	0.0	89
4.2	3.0	2.1	1.5	0.9	0.5	0.2	0.0	0.0	0.0	90
4.0	2.8	1.9	1.3	0.8	0.4	0.1	0.0	0.0	0.0	91
3.7	2.6	1.8	1.2	0.7	0.3	0.1	0.0	0.0	0.0	92
3.3	2.3	1.7	1.1	0.6	0.2	0.1	0.0	0.0	0.0	93
3.2	2.2	1.6	1.0	0.5	0.1	0.0	0.0	0.0	0.0	94
3.0	2.1	1.5	0.9	0.5	0.2	0.0	0.0	0.0	0.0	95
2.8	1.9	1.3	0.8	0.4	0.1	0.0	0.0	0.0	0.0	96
2.6	1.8	1.2	0.7	0.3	0.1	0.0	0.0	0.0	0.0	97
2.3	1.7	1.1	0.6	0.2	0.1	0.0	0.0	0.0	0.0	98
2.2	1.6	1.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	99
2.1	1.5	0.9	0.5	0.2	0.0	0.0	0.0	0.0	0.0	100
1.9	1.3	0.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	101
1.8	1.2	0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	102